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AMENDED CLAIM SET

The claims have been amended as follows:

1. (currently amended) A valve system for an internal combustion engine,

comprising:

an intake-side rocker shaft;

an exhaust-side rocker shaft;

intake-side rocker arms having ends thereof connected to intake valves and supported on

said intake-side rocker shaft such that said intake-side rocker arms rock, the intake-side rocker

arms being driven by an intake cam; and

exhaust-side rocker arms having ends thereof connected to exhaust valves and supported

on said exhaust-side rocker shaft such that said exhaust-side rocker arms rock, the exhaust-side

rocker arms being driven by an exhaust cam,

wherein one of said rocker shafts which requires to have a higher stiffness has a larger

diameter to prevent said one of the rocker shafts from at least one of curving and twisting due to

external force incurred to one of said intake-side rocker arms and said exhaust-side rocker arms.

2. (original) A valve system for an internal combustion engine according to

claim 1, wherein said intake-side rocker arms includes,

a first rocker arm having an end thereof connected to the intake valve and

supported on said intake-side rocker shaft such that said first rocker arm rocks, the first rocker

arm being driven by a first low-lift cam,

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a second rocker arm having an end thereof connectable to said first rocker arm

and supported on said intake-side rocker shaft such that said second rocker arm rocks, the second

rocker arm being driven by a high-lift cam causing a larger valve lift than the first low-lift cam,

and

a connection switching mechanism that selectively connects or disconnects said

second rocker arm to or from said first rocker arm,

wherein said intake-side rocker shaft has a larger diameter than a diameter of said

exhaust-side rocker shaft.

3. (original) A valve system for an internal combustion engine according to

claim 1, wherein,

said intake valves includes a first intake valve and a second intake valve, and

said intake-side rocker arms includes,

a first rocker arm having an end thereof connected to said first intake valve and supported

on said intake-side rocker shaft such that said first rocker arm rocks, the first rocker arm being

driven by a first low-lift cam,

a third rocker arm having an end thereof connected to said second intake valve and

supported on said intake-side rocker shaft such that said third rocker arm rocks, the third rocker

arm being driven by a second low-lift cam that causes a smaller valve lift than the first low-lift

cam,

a second rocker arm having an end thereof connectable to said first rocker arm and

supported on said intake-side rocker shaft such that said second rocker arm rocks, the second

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rocker arm being driven by a high-lift cam that causes a larger valve lift than the first low-lift

cam, and

a connection switching mechanism that selectively connects or disconnects said second

rocker arm to or from said first rocker arm and said third rocker arm,

wherein said intake-side rocker shaft has a larger diameter than a diameter of said

exhaust-side rocker shaft.

4. (original) A valve system for an internal combustion engine according to any

of claims 1 to 3, wherein said intake-side rocker arms includes center-pivot type rocker arms

with middle parts thereof pivoted by said intake side rocker shaft.

5. (original) A valve system for an internal combustion engine according to

claim 4, wherein said intake-side rocker arms and said exhaust-side rocker arms are driven by a

single cam shaft disposed between said intake-side rocker shaft and said exhaust-side rocker

shaft.

6. (new) A valve system for an internal combustion engine according to claim 3,

wherein the first rocker arm has a first roller follower provided with a double-ring type sliding

roller that makes contact with the first low-lift cam.

7. (new) A valve system for an internal combustion engine according to claim 3,

wherein the first rocker arm has a first roller follower provided with a double-ring type sliding

roller that makes contact with the first low-lift cam, and the third rocker arm has second roller

follower provided with a needle bearing that makes contact with the second low-lift cam.

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8. (new) A valve system for an internal combustion engine, comprising:

an intake-side rocker shaft having a first oil channel extending in a longitudinal direction

thereof;

an exhaust-side rocker shaft having a second oil channel extending in a longitudinal

direction thereof;

intake-side rocker arms having ends thereof connected to intake valves and supported on

said intake-side rocker shaft such that said intake-side rocker arms rock, the intake-side rocker

arms being driven by an intake cam; and

exhaust-side rocker arms having ends thereof connected to exhaust valves and supported

on said exhaust-side rocker shaft such that said exhaust-side rocker arms rock, the exhaust-side

rocker arms being driven by an exhaust cam,

wherein one of said rocker shafts which requires to have a higher stiffness has a larger

diameter and has an oil channel having a larger diameter.